



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/900,706	07/06/2001	D. Graeme Grant	0104704-0007	3958
7590	08/24/2005			
DAVID J. POWSNER NUTTER, MCCLENNEN7 FISH LLP WORLD TRADE CENTER WEST 155 SEAPORT BLVD. BOSTON,, MA 02210-2604			EXAMINER	
			FISCHER, ANDREW J	
			ART UNIT	PAPER NUMBER
			3627	

DATE MAILED: 08/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Art Unit: 3627

***Requirement for Information Under 37 C.F.R. § 1.105***

1. Applicants and the assignee of this application are required under 37 C.F.R. §1.105 to provide the following information that the Examiner has determined is reasonably necessary to the examination of this application.
2. Because it is difficult to search for equations, the Examiner would like to know the origin of the equation beginning “ $S(t) =$ ” as stated claim 1 of Applicants’ response filed May 28, 2005 (“equation”). In particular, is the equation an equation known to those of ordinary skill in the art or was the equation invented by Applicants?
3. In response to this requirement, please provide the title, citation and copy of each publication that is a source used for the equation. In response to this requirement, please provide any known document that utilizes this equation or uses a significant part of the equation.
4. The fee and certification requirements of 37 C.F.R. §1.97 are waived for those documents submitted in reply to this requirement. This waiver extends only to those documents within the scope of this requirement under 37 C.F.R. §1.105 that are included in the applicant’s first complete communication responding to this requirement. Any supplemental replies subsequent to the first communication responding to this requirement and any information disclosures beyond the scope of this requirement under 37 C.F.R. §1.105 are subject to the fee and certification requirements of 37 C.F.R. §1.97.
5. In responding to those requirements that require copies of documents, where the document is a bound text or a single article over 50 pages, the requirement may be met by providing copies of those pages that provide the particular subject matter indicated in the requirement, or where such subject matter is not indicated, the subject matter found in applicant’s disclosure.

Art Unit: 3627

6. The Applicant are reminded that the reply to this requirement must be made with candor and good faith under 37 C.F.R. §1.56. Where Applicants do not have or cannot readily obtain an item of required information, a statement that the item is unknown or cannot be readily obtained will be accepted as a complete response to the requirement for that item.

7. This requirement is subject to the provisions of 37 C.F.R. §§ 1.134, 1.135 and 1.136 and has a shortened statutory period of 2 months. EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR §1.136(a).

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew J. Fischer whose telephone number is (571) 272-6779.

9. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexander Kalinowski can be reached on (571) 272-6771. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Andrew J. Fischer  
Primary Examiner  
Art Unit 3627

AJF

August 11, 2005

